

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
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EL773171169US

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Christen M. Anderson et al.

FILING DATE

March 14, 2001

jc997 U.S. PTO
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
HS	AB	EP 0 130 074 A	01/02/85	EPO		
HS	AC	EP 0 477 961 A	04/01/92	EPO		
HS	AD	EP 0 770 610 A	05/02/97	EPO		
HS	AE	WO 98/19714	05/14/98	WIPO		
HS	AF	WO 98/28415	07/02/98	WIPO		X
HS	AG	WO 99/07845	02/18/99	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

HS	AH	✓	Adrian et al., "Sequences Required for Delivery and Localization of the ADP/ATP Translocator to the Mitochondrial Inner Membrane," <i>Molecular and Cellular Biology</i> 6(2):626-634, 1986.
HS	AI		Aquila et al., "Complete Amino Acid Sequence of the ADP/ATP Carrier from Beef Heart Mitochondria," <i>Hoppe-Seyler's Z. Physiol. Chem.</i> 363:345-349, 1982.
HS	AJ		Block et al., "Atractyloside and Bongkreikic Acid Sites in the Mitochondrial ADP/ATP Carrier Protein," <i>FEBS Letters</i> 131(2):213-218, 1981.
HS	AK		Block et al., "Chemical Modifications and Active Site Labeling of the Mitochondrial ADP/ATP Carrier," <i>Methods in Enzymology</i> 125:658-670, 1986.
HS	AL		Block et al., "Fluorescent Probes of the Mitochondrial ADP/ATP Carrier Protein," <i>Methods in Enzymology</i> 125: 639-649, 1986.
HS	AM		Bojanovski et al., "Studies on the Adenine Nucleotide Translocase from Rat Liver Mitochondria," <i>Eur. J. Biochem.</i> 71:539-548, 1976.
HS	AN		Boulay et al., "Photolabeling Approach to the Study of the Topography of the Atractyloside Binding Site in Mitochondrial Adenosine 5'-Diphosphate/Adenosine 5'-Triphosphate Carrier Protein," <i>Biochemistry</i> 22: 477-484, 1983.
HS	AO		Boulay et al., "Synthesis and Properties of Fluorescent Derivatives of Atractyloside as Potential Probes on the Mitochondrial ADP/ATP Carrier Protein," <i>Analytical Biochemistry</i> 128:323-330, 1983.

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BS	BC	Brandolin et al, "Partial Purification of an Atractyloside-Binding Protein from Mitochondria," <i>FEBS Letters</i> 46(1):149-153, 1974.
BS	BD	Brandolin et al., "Substrate-Induced Modifications of the Intrinsic Fluorescence of the Isolated Adenine Nucleotide Carrier Protein: Demonstration of Distinct Conformational States," <i>Biochemistry</i> 24:1991-1997, 1985.
BS	BE	Brunelli and Pall, "A Series of Yeast Shuttle Vectors for Expression of cDNAs and Other DNA Sequences," <i>Yeast</i> 9:1299-1309, 1993.
BS	BF	Cozens et al., "DNA Sequences of Two Expressed Nuclear Genes for Human Mitochondrial ADP/ATP Translocase," <i>J. Mol. Biol.</i> 206:261-280, 1989.
BS	BG	Fiore et al., "The Mitochondrial ADP/ATP Carrier: Structural, Physiological and Pathological Aspects," <i>Biochimie</i> 80:137-150, 1998.
BS	BH	Giraud et al., "Expression of Human <i>ANT2</i> Gene in Highly Proliferative Cells: GRBOX, a New Transcriptional Element, Is Involved in the Regulation of Glycolytic ATP Import into Mitochondria," <i>J. Mol. Biol.</i> 281:409-418, 1998.
BS	BI	Green and Reed, "Mitochondria and Apoptosis," <i>Science</i> 281:1309-1312, August 28, 1998.
BS	BJ	Klingenberg et al., "Isolation of the ADP, ATP Carrier as the Carboxyatractylate Protein Complex from Mitochondria," <i>Biochimica et Biophysica Acta</i> 503:193-210, 1978.
BS	BK	Klingenberg, "The ADP-ATP Translocation in Mitochondria, a Membrane Potential Controlled Transport," <i>J. Membrane Biol.</i> 56:97-105, 1980.
BS	BL	Klingenberg, M., "Principles of Carrier Catalysis Elucidated by Comparing Two Similar Membrane Translocators from Mitochondria, the ADP/ATP Carrier and the Uncoupling Protein," <i>Annals New York Academy of Sciences</i> 456:279-288, 1985.
BS	BM	Ku et al., "The Human Fibroblast Adenine Nucleotide Translocator Gene," <i>Journal of Biological Chemistry</i> 265(27): 16060-16063, 1990.

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	CB				

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HS	CC	Lauquin and Vignais, "Interaction of [³ H]Bongkreikic Acid with the Mitochondrial Adenine Nucleotide Translocator," <i>Biochemistry</i> 15(11):2316-2322, 1976.
HS	CD	Lauquin et al., "Isobongkreikic Acid, a New Inhibitor of Mitochondrial ADP-ATP Transport: Radioactive Labeling and Chemical and Biological Properties," <i>Biochemistry</i> 15(11):2323-2327, 1976.
HS	CE	Li et al., "A Human Muscle Adenine Nucleotide Translocator Gene Has Four Exons, is Located on Chromosome 4, and is Differentially Expressed," <i>Journal of Biological Chemistry</i> 264(24): 13998-14004, 1989.
HS	CF	Li et al., "OXBOX, a Positive Transcriptional Element of the Heart-Skeletal Muscle ADP/ATP Translocator Gene," <i>Journal of Biological Chemistry</i> 265(33): 20585-20588, 1990.
HS	CG	Marzo et al., "Bax and Adenine Nucleotide Translocator Cooperate in the Mitochondrial Control of Apoptosis," <i>Science</i> 281:2027-2031, September 25, 1998.
HS	CH	Murdock et al., "Up-Regulation of Nuclear and Mitochondrial Genes in the Skeletal Muscle of Mice Lacking the Heart/Muscle Isoform of the Adenine Nucleotide Translocator," <i>The Journal of Biological Chemistry</i> 274(20):14429-14433, May 14, 1999.
HS	CI	Piozzi et al., "Structure of Atroctyloside," Chemical Abstracts Acc. No. 67:117201, 1967.
HS	CJ	Piozzi et al., "Struttura dell'attrattiloside," <i>Gazzetta Chimica Italiana</i> 97(6): 935-954, 1967. (English summary on page 936)
HS	CK	Plano et al., "Rickettsia Prowazekii and ATP/ADP Translocase," <i>Annals of the New York Academy of Sciences</i> 590: 397-407, 1990.
HS	CL	Rosenberg, <i>Protein Analysis and Purification: Benchtop Techniques</i> , Birkhauser, Boston, pp. 335-347, 1996.
HS	CM	Roux et al., "Fluorometric Titration of the Mitochondrial ADP/ATP Carrier Protein in Muscle Homogenate with Atractyloside Derivatives," <i>Analytical Biochemistry</i> 234:31-37, 1996.

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					YES	NO
	DE					
	DF					
	DG					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

KS	DH	Santi and Luciani (eds.), <i>Atractyloside: Chemistry, Biochemistry and Toxicology</i> , Piccin Medical Books, Padova, Italy, 1978.
KS	DI	Smagula and Douglas, "Mitochondrial Import of the ADP/ADP Carrier Protein in <i>Saccharomyces Cerevisiae</i> ," <i>Journal of Biological Chemistry</i> 263(14): 6783-6790, 1988.
KS	DJ	Sterling, "Direct Thyroid Hormone Activation of Mitochondria: The Role of Adenine Nucleotide Translocase," <i>Endocrinology</i> 119(1):292-295, 1986.
KS	DK	Stubbs, "Inhibitors of the Adenine Nucleotide Translocase," <i>Pharmac. Ther.</i> 7:329-349, 1979.
KS	DL	Tjaden et al. "Expression of a Plastidic ATP/ADP Transporter Gene in <i>Escherichia Coli</i> Leads to a Functional Adenine Nucleotide Transport System in the Bacterial Cytoplasmic Membrane," <i>Journal of Biological Chemistry</i> 273(16): 9630-9636, 1998
KS	DM	Vignais et al., "[60] ³ H- or ³⁵ S-Labeled Atractyloside and Carboxyatractyloside, Atractyloside Derivatives Used for Affinity Chromatography, Photoaffinity Labeling, and Spin Labeling, and ³ H- or ¹⁴ C-Labeled Bongkreikic Acid," <i>Methods in Enzymology</i> 55:518-533, 1979.
KS	DN	Vignais et al., "Adenosine Diphosphate Translocation in Mitochondria. Nature of the Receptor Site for Carboxyatractyloside (Gummiferin)," <i>Biochemistry</i> 12(8): 1508-1519, 1973.
KS	DO	Yan and Sohal, "Mitochondrial Adenine Nucleotide Translocase is Modified Oxidatively During Aging," <i>Proc. Natl. Acad. Sci. USA</i> 95:12896-12901, October 1998.

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